



***Powered by WareLite BOSS***

**Real Time, Integrated Management of Artworks  
Safety & Security**

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- **JeriTech Ltd is a UK based ISV founded in February 2007 by a Management Team including WareLite Ltd Directors and Experts in the Safety & Security of Artworks**
- **JeriTech offers Real Time, Integrated Safety & Security solutions based on WareLite Event Driven Application Platform, WL BOSS ([www.warelite.net](http://www.warelite.net)) and supported by Motorola (Symbol) Enterprise Class Mobile Momputers**
- **JeriTech market is Art Galleries, Museums and Art Auction Houses**

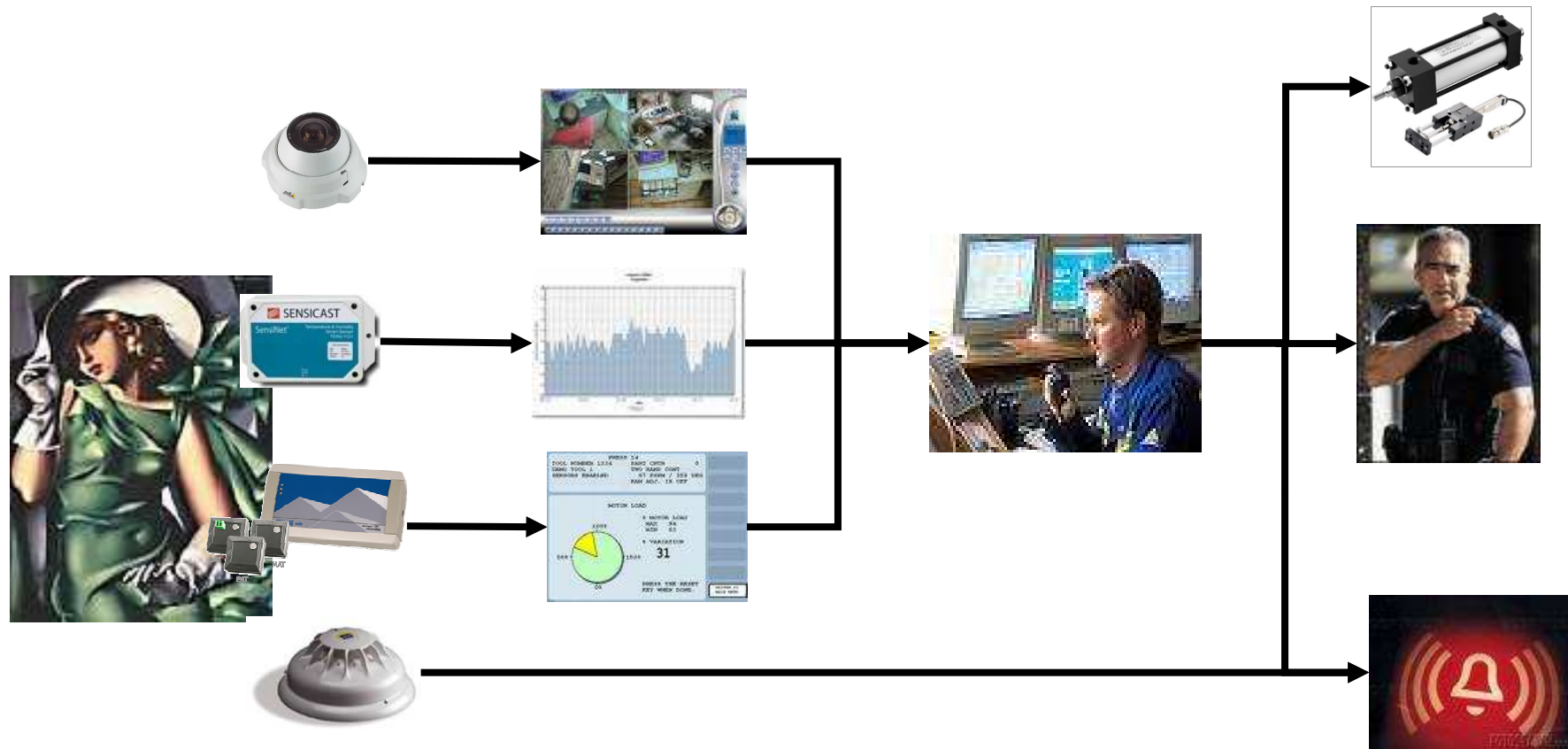


- The management of an art work's lifecycle – from its delivery to the monitoring of its security and environmental safety – still depends upon fundamentally manual activities
- In fact, though new wireless sensor networks can monitor a variety of parameters with ever greater precision and resolution, such connectivity and granularity are not matched by current software tools' capabilities, as they suffer from two main limitations:
  - *Current safety and security software applications have been developed with a 'silos' approach, i.e. each single type of sensor is managed vertically and separately from all others. Correlating the various parameters monitored – each available via a separate interface - is the user's responsibility*
  - *They do not provide automated reactivity to anomalies – it is the user's responsibility to observe parameter's variations and decide upon the appropriate course of action*

The value of sensor data is in their immediacy and accuracy: current software tools introduce latency and imprecision in the reactivity to the variation of monitored parameters – with costs that increase linearly with the value of the artworks' exhibited

# Safety & Security of Artworks: Current Situation

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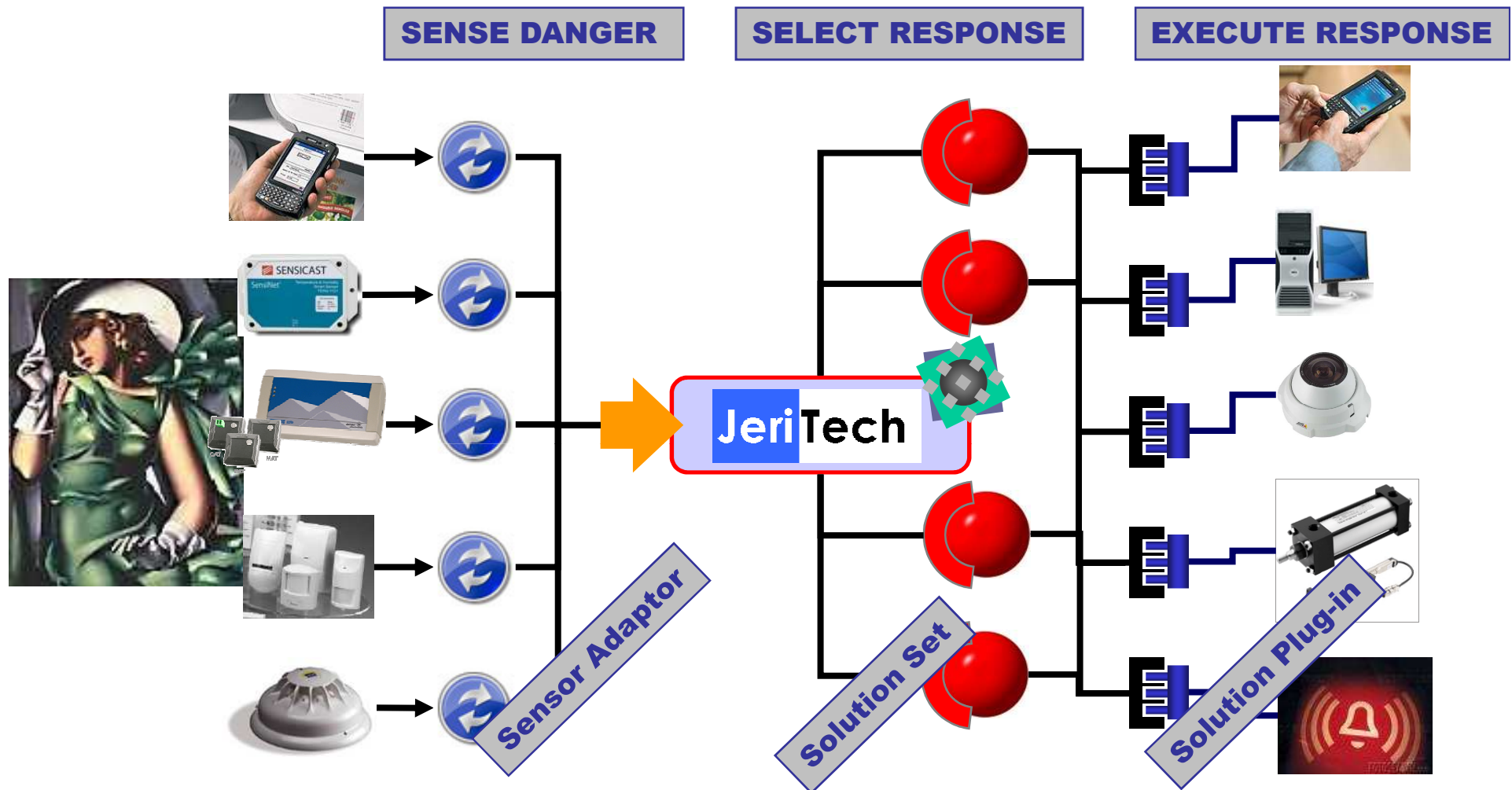


The management of sensors and tools monitoring artworks Safety & Security currently depends on a number of independent applications, thus requiring manual intervention to correlate different sensor readings and react to anomalies. This introduces delays and mistakes in responding to danger - and costs that increase linearly with the value of the artworks monitored

- **THE OBJECTIVE:** To react immediately and precisely to variations in the parameters measuring artworks' safety & security, i.e. to manage an artwork's lifecycle with the maximum degree of automation
- **HOW TO ACHIEVE IT:** With a unified vision over the entire wireless sensors network, where correlations between monitored parameters are automatically analysed and each anomaly immediately triggers an automated reaction, localised where needed. Such reaction can be the activation of an external tool (e.g. CCTV) and/or the sending of alert messages over pervasive supports such as Pocket PCs (e.g. Symbol MC50). These – thanks to their many functionalities, including barcode reading and printing – are used to automate the management of the entire artwork's lifecycle
- **BENEFITS:** Increase in the safety & security of artworks and reduction of operational costs

# Safety & Security of Artworks: with JeriTech

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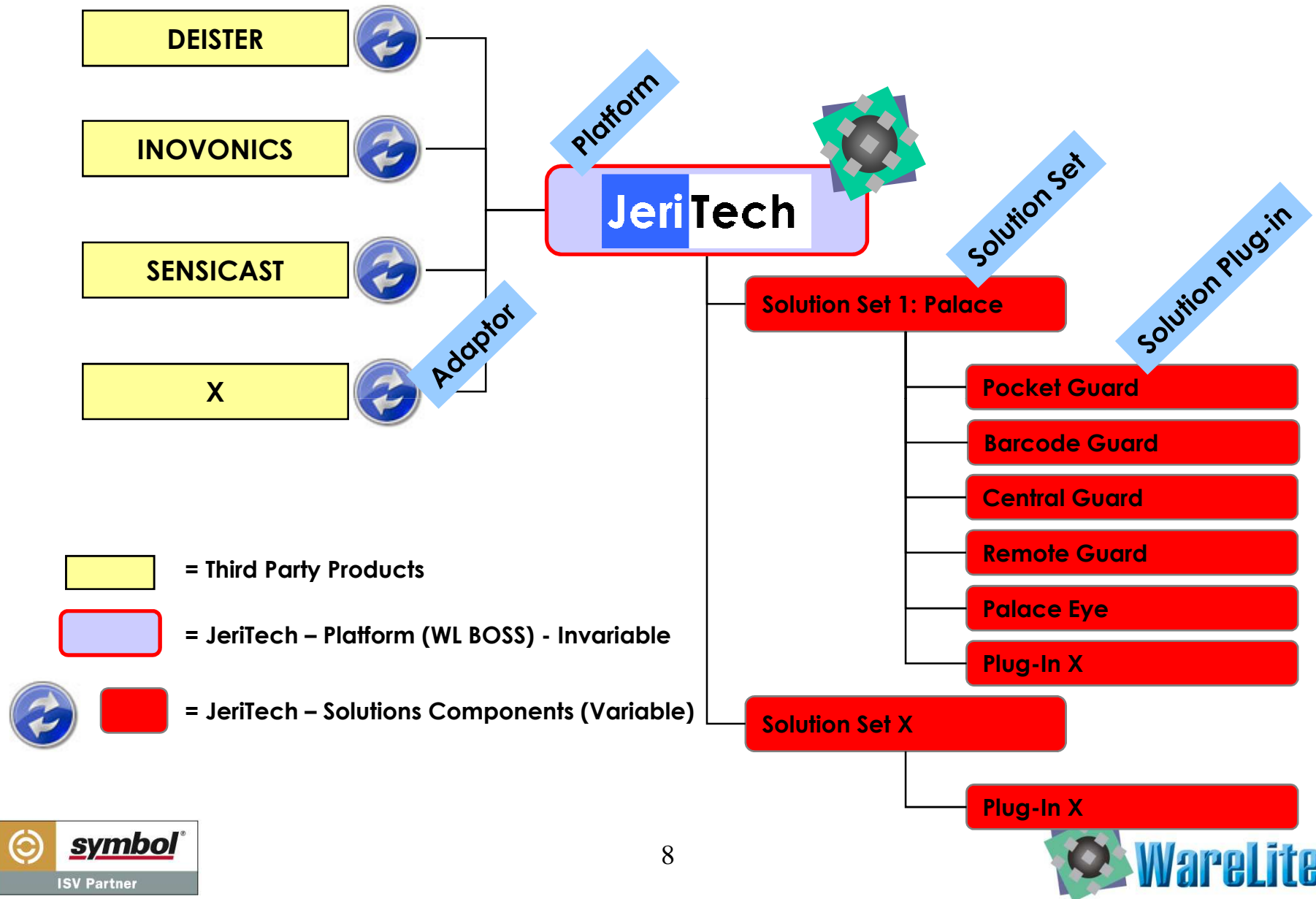
JeriTech automatically correlates readings from any sensors, providing instant, automated responsiveness to every kind of anticipated danger – increasing artworks' security and decreasing operational costs

# An Artwork's Lifecycle with JeriTech

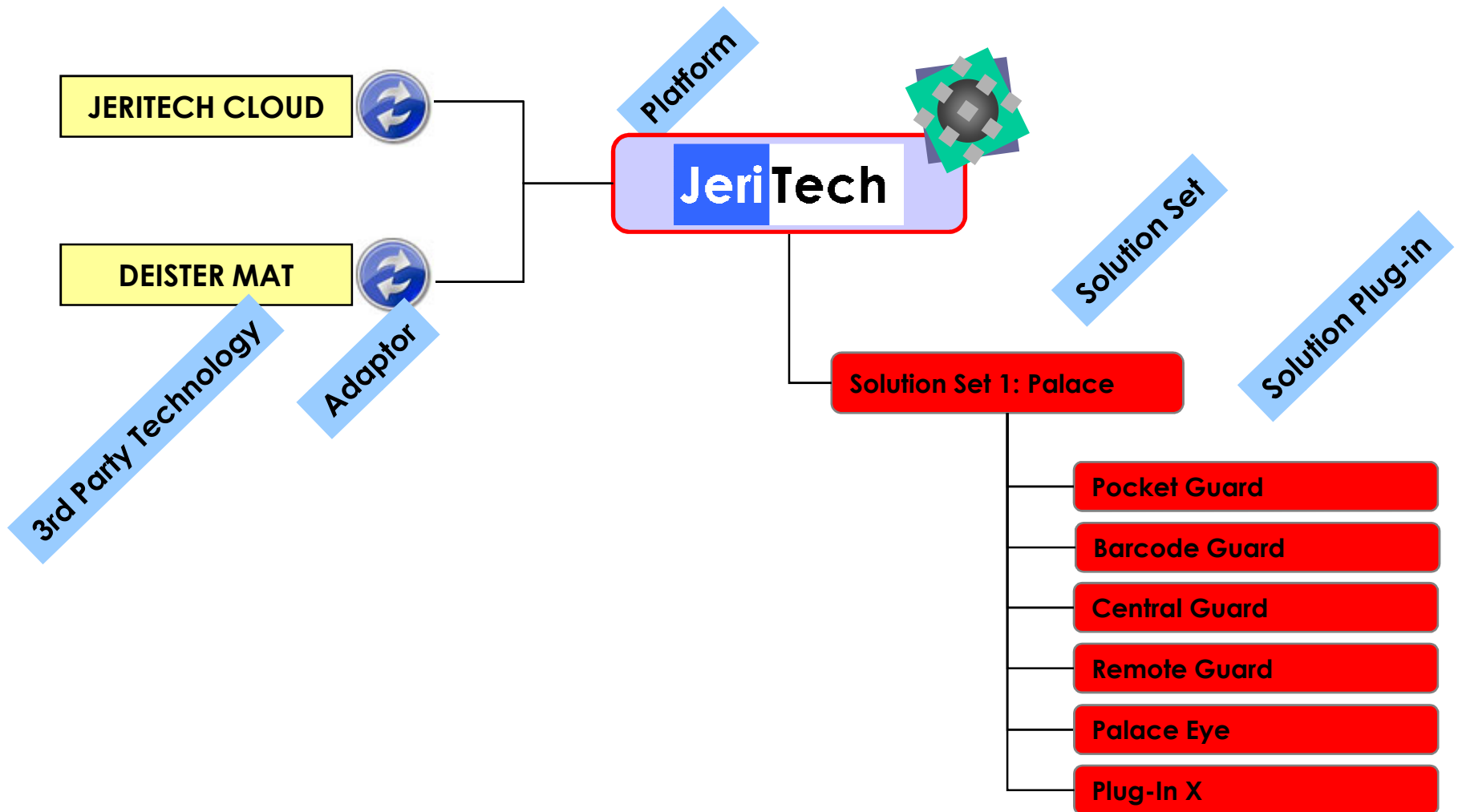
Jeritech

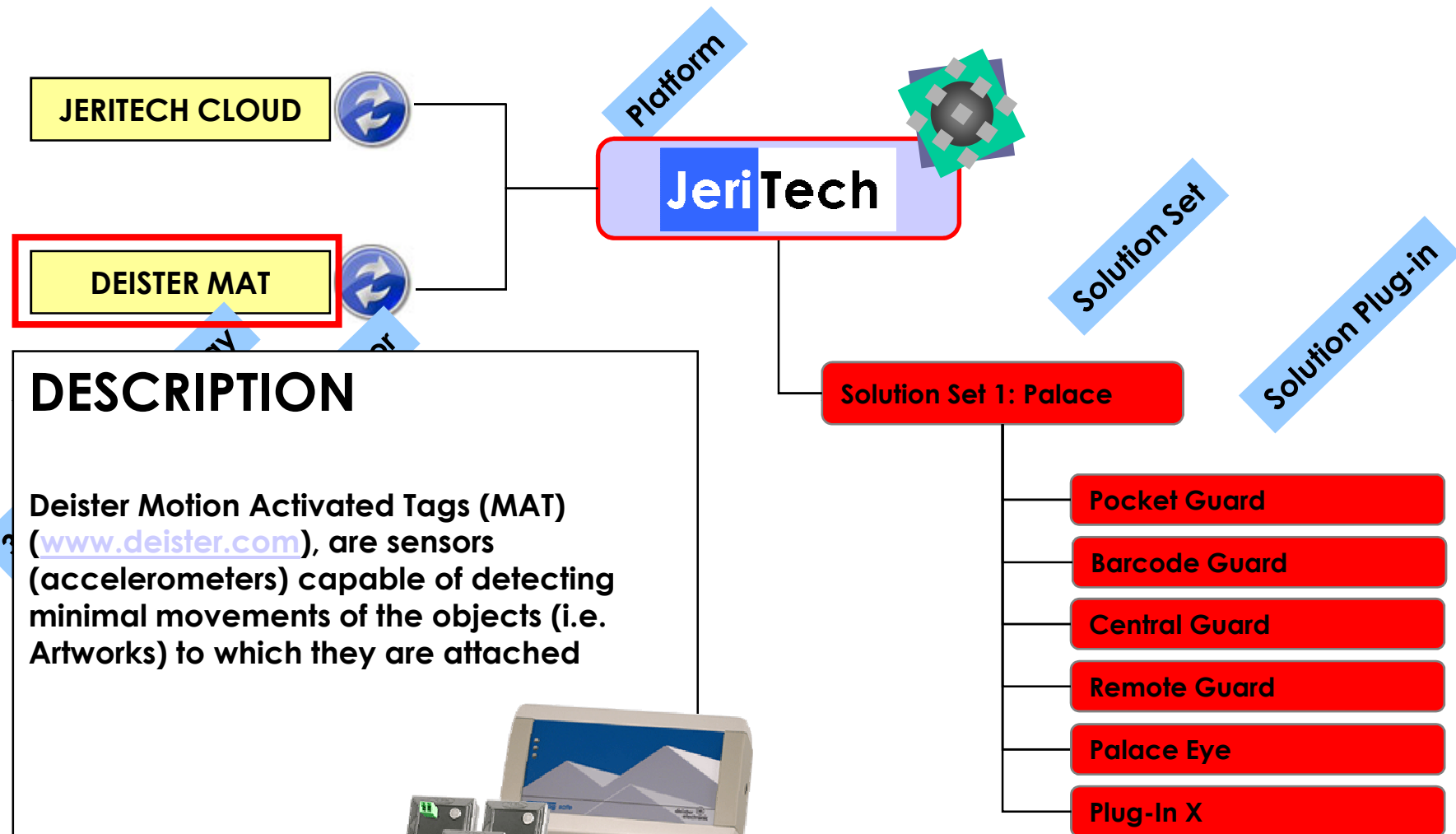


# JeriTech: System Architecture



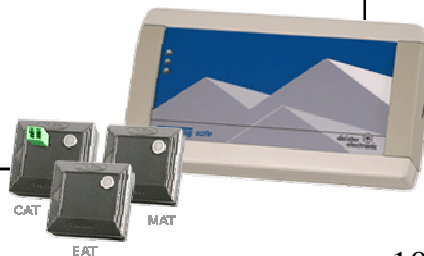






## DESCRIPTION

Deister Motion Activated Tags (MAT) ([www.deister.com](http://www.deister.com)), are sensors (accelerometers) capable of detecting minimal movements of the objects (i.e. Artworks) to which they are attached

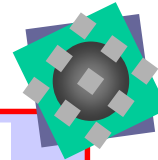


JERITECH CLOUD



Platform

JeriTech



Solution Set

Solution Plug-in

## DESCRIZIONE

'Cloud' is a proximity sensor developed by JeriTech.  
Cloud is activated as soon as an individual gets too close to the protected artwork. The minimum safety distance is fully configurable.

Solution Set 1: Palace

Pocket Guard

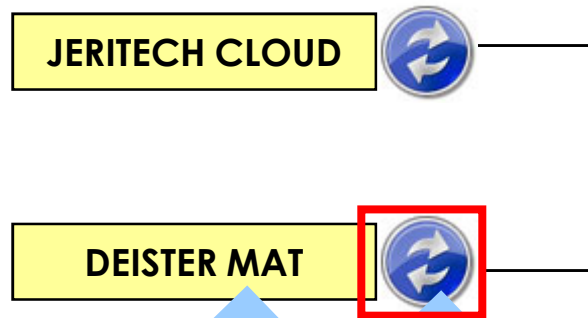
Barcode Guard

Central Guard

Remote Guard

Palace Eye

Plug-In X



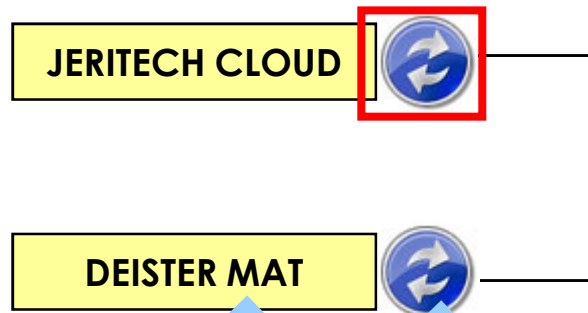
## DESCRIPTION

A JeriTech Adaptor transforms each single signal emitted by a sensor/device into an 'event' (an XML frame) and presents such event to JeriTech platform (WL BOSS)

Each JeriTech Adaptor is specifically developed to function in combination with a certain sensor/device: the MAT Adaptor transforms motion signals into events and presents them to the JeriTech platform

### Solution Set 1: Palace

- Pocket Guard
- Barcode Guard
- Central Guard
- Remote Guard
- Palace Eye
- Plug-In X



Platform



Solution Set

Solution Plug-in



- Pocket Guard
- Barcode Guard
- Central Guard
- Remote Guard
- Palace Eye
- Plug-In X

## DESCRIZIONE

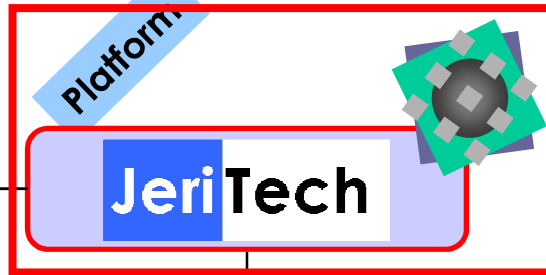
The Cloud Adaptor, developed by Jeritech, transforms proximity signals into events and presents them to JeriTech platform (WL BOSS)



JERITECH CLOUD



DEISTER MAT



Solution Set

Solution Plug-in

Solution Set 1: Palace

- Pocket Guard
- Barcode Guard
- Central Guard
- Remote Guard
- Palace Eye
- Plug-In X

## DESCRIPTION

JeriTech solutions are powered by WareLite Event Driven Application Platform , WL BOSS ([www.warelite.net](http://www.warelite.net)).

Thanks to WL BOSS, JeriTech uses each single signal generated by sensors monitoring artworks' safety & security to trigger completely automated processes (Solutions Sets). These provide parameters correlation, anomaly/danger detection, instant reactivity and real time visibility to all stakeholders, using a variety of supporting tools (Plug-Ins)

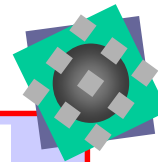


JERITECH CLOUD



Platform

JeriTech



Solution Set

Solution Plug-in

## DESCRIPTION

Each JeriTech Solution Set is made of a number of processes instantly correlating parameters measured by different sensors, detecting anomalies or dangers and providing instant reactivity and real time visibility to all stakeholders, using a variety of supporting tools (Plug-Ins).

The Solution Set 'Palace' alerts Guards and other Stakeholders - using a number of different communication devices (plug-ins) - as soon as a MAT or Cloud tag generates a motion signal. Moreover, it can activate other tools (plug-ins) such as CCTV cameras, actuators closing doors etc.

Solution Set 1: Palace

Pocket Guard

Barcode Guard

Central Guard

Remote Guard

Palace Eye

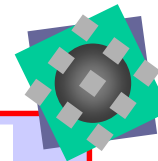
Plug-In X

JERITECH CLOUD



Platform

JeriTech



Solution Set

Solution Plug-in

## DESCRIPTION

A Solution Plug-In is a process using a third-party device as a support to provide instant reactivity to anomalies or potential dangers detected by the Solution Set processes. The same type of plug-in can be used within different Solution Sets.

As soon as an anomaly or potential danger is detected, the 'Pocket Guard' plug-in sends alert messages to Motorola Enterprise Class Mobile Computers (e.g. Symbol MC50, [www.symbol.com](http://www.symbol.com)) carried by security guards. Within the Solution Set 'Palace', this means sending alerts instantly as soon as a MAT or Cloud tag generates a signal.

Solution Set 1: Palace

Pocket Guard

Barcode Guard

Central Guard

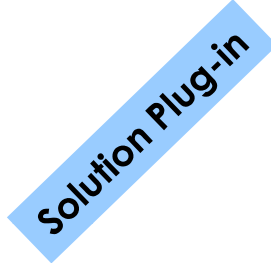
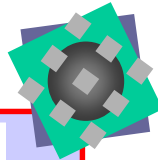
Remote Guard

Palace Eye

Plug-In X







## DESCRIPTION

The 'Barcode Guard' plug-in uses Symbol MC50's barcode scanning functionality to enable guards to close an alarm situation by scanning the artwork's barcode. If the guard cannot address the situation, he can press the 'danger' button, instantly sending danger messages to colleagues, managers, police etc.

Other guards - and managers - will have real time visibility over the pending alert closure. The time elapsed between opening and closing an alarm is automatically calculated, allowing the measurement of responsiveness efficiency.



- **Unified visibility over all parameters relevant to the safety of artworks, including environmental conditions (e.g. humidity and temperature sensors) and security (e.g. motion sensors)**
- **Readings from different types of sensors are instantly and automatically correlated to identify anomalies and dangers**
- **When dangers or anomalies are detected, instant alerts are presented on any chosen media (e.g. Pocket PCs, mobile phones, standard PCs) to guards, managers, collectors etc.**
- **Automated, instant reaction to danger for enhanced protection. A motion sensor signal can instantly alert guards, activate sound alarms, orientate CCTVs towards the signal's source, close doors etc.**
- **All solutions can be quickly modified and extended to measure new parameters and take different actions**
- **Future-proof technology, capable of using any new devices - including sensors and plug-ins – available in the future**
- **A scalable platform, capable of expanding in response to increased demands**

- **Reduction of Safety & Security systems' management costs**
- **Reduction of exhibitions/museums/auction houses management costs**
- **Increase in resources effectiveness & efficiency – measurable in real time**
- **Increase in personnel satisfaction**
- **Increase in artworks' safety**
  - *Better protection from environmental risks*
- **Increase in artworks' security**
  - *Better protection from theft, accidents, vandalism*
- **Reduction in Insurance Premiums**
- **Increase in Collectors and Lenders' confidence**